STARTUP PROCEDURES FOR THE FSR PIPER M500

Use this checklist to help with the startup of the Piper M500 using the Logitech **Switch Panel** with **SPAD.Next** and my **M500 Snippet**.

 $\hfill \Box$ Fire DET/Ann Test press and hold verify Eng Fire CAS release

 $\ \square$ CAS Consider any that are illuminated

SE	ET UP THE ENVIRONMENT FROM MAIN I	MENU			
	Choose a suitable aerodrome to depart from, ensure parking slot, so you are cold and dark.	you pick a			
	Choose any liveries for the M500.				
	Choose some suitable weather for your flight, few clo	ouds would			
	be nice.		MARINE THE PARTY OF THE PARTY O		
Ш	I recommend using headphones as the sounds for the	e aircraft			
	are amazing. Once you are happy click Fly.		BYATCMR		
	You should now be cold and dark on your chosen par	rkina slot			
	at your aerodrome ready for your startup procedure.	•	Last updated 05 D		
			_		
ΤI	ME TO START HER UP				
	Run Spad.Next from the start menu.				
	Choose the M500 from the profiles menu and activate	e it, you can n	ow minimize Spad.Next		
	You should see the Landing Gear lights on now top re		ers Green, this is a good		
	indication that you have the correct profile running o	-			
Ш	Check Full movement of the Prop RPM and Full cond	ition levers.			
PF	RE START CHECKS				
	All Passengers Boarded.	·			
Ц	Chocks/Pitot covers External equipment all stowed (Check EFB)				
	Door Closed and Latched.				
	All electrical Switches Off Climate Controls Off				
	Circuit Breakers all pushed in ECS Cabin Comfort Off				
	Parking Brake Set on	(Tgl 4)			
	Bleed Air Pulled and off	(R)			
	Power lever idle	(10)			
	Condition lever cut off/feather				
	Emer Switch on Check PFD then off	(SW2 shor	t then long for off)		
	Nav light on.	(2.112.01101	· ·		
	Battery switch on				
	Flaps retract				
	Fuel Check for imbalance and quantity for flight.				
	OAT/Oil Temps Verify and check				

Dec 23

ENGINE START USING BATTERY

	Battery Voltage 24-26 Volts	
	Fuel Pumps to manual	(On to Man / Off to Auto)
	L & R Fuel Pumps on CAS Message - Illuminated	
	Ignition switch to manual	(L)
	Ignition on CAS Message - illuminated	
	Prop area Clear	
	Start mode switch Auto (light in switch extinguished).	
	Push Start switch (lift cover Push)	(SW1)
	Oil Pressure check rising.	
	Ng Min 13% Stabilized.	
	Condition lever to Run.	
	ITT Max 100% limited to 5 secs	
	Starter at 56% Ng Verify starter off (CAS) if not press M	an/Stop
	Ng stable above 63%	
	Np verify 1200rpm Minimum	
	Gen switch On (check positive amps & 28 Volts)	(Master Alt)
	ALT Switch on	
	Fuel Pumps switch to Auto	(Fuel Pumps to Off on SP)
	Ignition Switch Off	(Both/All)
	Oil Pressure check (min 60PSI)	
	Continued from external	nower start
	Continued from external Avionics Switch On	power start.
	Avionics Switch On	power start.
	Avionics Switch On MFD on (Press Ent bottom right soft key)	power start.
_	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated	power start.
	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated Auto Pilot Pre flight test	power start.
	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated Auto Pilot Pre flight test PITOT Switch On check operation	power start.
	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated Auto Pilot Pre flight test	power start.
	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated Auto Pilot Pre flight test PITOT Switch On check operation Pitot Switch Off/As required	power start.
	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated Auto Pilot Pre flight test PITOT Switch On check operation Pitot Switch Off/As required Taxi Lights On	power start.
	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated Auto Pilot Pre flight test PITOT Switch On check operation Pitot Switch Off/As required Taxi Lights On Cabin Climate controls as required	power start.
	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated Auto Pilot Pre flight test PITOT Switch On check operation Pitot Switch Off/As required Taxi Lights On Cabin Climate controls as required Radios/Avionics Check	power start.
	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated Auto Pilot Pre flight test PITOT Switch On check operation Pitot Switch Off/As required Taxi Lights On Cabin Climate controls as required Radios/Avionics Check Flaps Retracted Check	power start.
	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated Auto Pilot Pre flight test PITOT Switch On check operation Pitot Switch Off/As required Taxi Lights On Cabin Climate controls as required Radios/Avionics Check Flaps Retracted Check Elevator Trim set for take off	power start. (Start)
	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated Auto Pilot Pre flight test PITOT Switch On check operation Pitot Switch Off/As required Taxi Lights On Cabin Climate controls as required Radios/Avionics Check Flaps Retracted Check Elevator Trim set for take off Rudder trim set 2-3 right trim on green mark	
	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated Auto Pilot Pre flight test PITOT Switch On check operation Pitot Switch Off/As required Taxi Lights On Cabin Climate controls as required Radios/Avionics Check Flaps Retracted Check Elevator Trim set for take off Rudder trim set 2-3 right trim on green mark Bleed Air Lever Push in (on)	
	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated Auto Pilot Pre flight test PITOT Switch On check operation Pitot Switch Off/As required Taxi Lights On Cabin Climate controls as required Radios/Avionics Check Flaps Retracted Check Elevator Trim set for take off Rudder trim set 2-3 right trim on green mark Bleed Air Lever Push in (on) Cabin Pressure Dump switch Verify Position	
	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated Auto Pilot Pre flight test PITOT Switch On check operation Pitot Switch Off/As required Taxi Lights On Cabin Climate controls as required Radios/Avionics Check Flaps Retracted Check Elevator Trim set for take off Rudder trim set 2-3 right trim on green mark Bleed Air Lever Push in (on) Cabin Pressure Dump switch Verify Position ECS Cabin Comfort switch set to Normal	
	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated Auto Pilot Pre flight test PITOT Switch On check operation Pitot Switch Off/As required Taxi Lights On Cabin Climate controls as required Radios/Avionics Check Flaps Retracted Check Elevator Trim set for take off Rudder trim set 2-3 right trim on green mark Bleed Air Lever Push in (on) Cabin Pressure Dump switch Verify Position ECS Cabin Comfort switch set to Normal Dest Elv (LFE in TMR/REF window) Set	(Start)
	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated Auto Pilot Pre flight test PITOT Switch On check operation Pitot Switch Off/As required Taxi Lights On Cabin Climate controls as required Radios/Avionics Check Flaps Retracted Check Elevator Trim set for take off Rudder trim set 2-3 right trim on green mark Bleed Air Lever Push in (on) Cabin Pressure Dump switch Verify Position ECS Cabin Comfort switch set to Normal Dest Elv (LFE in TMR/REF window) Set Stall warning Press to Test	(Start)
	Avionics Switch On MFD on (Press Ent bottom right soft key) CAS Messages consider any illuminated Auto Pilot Pre flight test PITOT Switch On check operation Pitot Switch Off/As required Taxi Lights On Cabin Climate controls as required Radios/Avionics Check Flaps Retracted Check Elevator Trim set for take off Rudder trim set 2-3 right trim on green mark Bleed Air Lever Push in (on) Cabin Pressure Dump switch Verify Position ECS Cabin Comfort switch set to Normal Dest Elv (LFE in TMR/REF window) Set Stall warning Press to Test Standby Flight Instrument Verify On	(Start)

DE	
DE	FORE TAXI PROCEDURES
	Taxi area clear
	Power Lever - Advance slowly
	Prop Rpm Min 1200rpm
	Brakes check
	Steering Check
Ш	Steering Check
RU	INUP PROCEDURES
	Parking Brake Set
	Power Lever set to 1900rpm
	Over Speed Gov Test Switch push and hold (observe approx. Np drop 60rpm then Release)
	Power Lever to Idle
	Reverse Lock Out switch Hold (Min 5 secs)
	Power Lever Retard (confirm Beta and Reverse not available)
	GEN Switch Off (confirm Alt takes Load)
	GEN Switch On
DE	
BE	FORE TAKE OFF CHECKS
	Seatbelts all fastened
	GEN switch on
	ALT Switch on
	BLEED Air Pushed in
	ECS Cabin Comfort Norm
	Fuel temp Check within limits
	Fuel Pumps switch Manual
	Ignition switch Manual
	Pitot On as required
	Ice Protection as required
	Taxi/REC light as required
	Landing Light On
	Nav Light On
	Strobe Light On
	Flight Instruments Check
	CAS/PFD Consider any warnings
	Engine Instruments Check
	Radios/Avionics/Transponder set as required
	Flaps set to 0-20
	Elevator and rudder trim set
	Flight Controls free and correct
	TO/GA press if required
	Timer and Heading Bug Start & Synch

Operating Speeds

The following Table sets out the Operating speeds for the M500

V _{mo} (Max Operating Speeds never Exceed this speed)	188			
V _o (Max maneuvering speed no abrupt turns above this speed)	127			
V FE (Max Flap extension Speeds)				
10	168			
20	135			
30	118			
V LO (Max Landing Gear Extension Speeds				
Extension	168			
Retraction	129			
V R Rotration Speed		85		
V x best angle of climb		95		
V y Best rate of climb	110			
V Glide	108			
V_{so} (Stall speed at max Take off weight and 0°, 30°, 45° bank	0°	30°	45°	
Clean no flaps gear up	78	84	93	
Landing flaps 36° gear down	68	74	83	
V ReF Landing speed full flaps	85			
V Ref landing speed no flaps		100		
Max Crosswind				

AFTER FLIGHT SHUTDOWN

Parking Brake set	Tgl4
ECS Cabin Comfort Off	
Power Lever Idle	
Climate controls Off	
Fuel Pumps Off	
Avionics switch Off	
Gen Switch Off	
ALT Switch Off	
ITT Stabilize for 2 mins @ Idle	
Condition lever to cut off	
Bleed Air Out	
Exterior lighting Off	
Fuel remaining note	
Battery Switch Off	
Door Open for Passengers	
Wheel Chocks tie downs and covers as required	i

ENGINE START USING EXTERNAL POWER ☐ Battery switch verify Off ☐ External Power Connect ☐ Throttle Idle ☐ Condition lever to idle ☐ Fuel Pumps to manual (On to Man / Off to Auto) ☐ Bleed Air Pulled and off (R) ☐ Nav light on ☐ Ignition switch to manual (L) ☐ Prop Area clear ☐ Start mode switch to auto (lights extinguished) ☐ Push Start (SW1) ☐ Oil pressure rising? ☐ Condition lever to run @ 13%ng stabilized ☐ Fuel Pumps to Auto (On to Man / Off to Auto) ☐ Ignition switch Off (Both/All) ☐ Battery switch On ☐ External Power disconnect ☐ Gen switch On ☐ Alt Switch On ☐ Oil Pressure check (min 60PSI) □ Continue on Battery start from •

MISCELLANEOUS BUTTONS

SW1 Start

SW2 Emergency Power

SW3 Stall warning

SW4 Folding table

SW5 Fire Det/Ann Test switch

SW6 Man/Stop Button

TGL1 Name Plates off/on

TGL2 Taxi Info on/off

TGL3 ATC on/off

TGL4 Parking Brake